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FILE 'CAPLUS' ENTERED AT 13:40:33 ON 27 MAY 2009

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E 827584-77-0/RN

L24 1 S E135

FILE 'CAPLUS' ENTERED AT 13:41:19 ON 27 MAY 2009

L25 1 S L24

L10 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2009 ACS on STN

RN 867345-83-3 REGISTRY

CN 1H-Indeno[5,4-f]quinoline-7-acetic acid,

11-chloro-2,3,4,4a,4b,5,6,6a,7,8,9,9a,9b,10-tetradecahydro-

1,4a,6a-

trimethyl-2-oxo-, (4aR, 4bS, 6aR, 7R, 9aS, 9bS)- (CA INDEX NAME)

FS STEREOSEARCH

MF C21 H30 C1 N O3

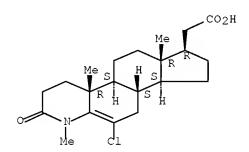
SR CA

LC STN Files: CA, CAPLUS, CASREACT, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent)

Absolute stereochemistry.



=> s 110

L11 1 L10

=> d l11 ti abs ibib hitind

L11 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2009 ACS on STN

TI Preparation of 17β -acetamide-4-azasteroids as androgen receptor modulators

GΙ

Azasteroids of structural formula I [X, Y = H, halo, OH, alkoxy,AΒ hydroxymethyl, alkyl; R1 = H, acyl, OH, alkyl, etc.; R1R4 = 5-6 membered ring; R2 = H, alkyl; R3 = aryl, alkylaryl, heteroaryl, alkyl, etc.; R2R3 = 5-6 membered ring; R4 = halo, alkyl, cyclopropa, oxo, etc.] are prepared as modulators of the androgen receptor (AR) in a tissue selective manner. These compds. are useful in the enhancement of weakened muscle tone and the treatment of conditions caused by androgen deficiency or which can be ameliorated by androgen administration, including osteoporosis, osteopenia, glucocorticoid-induced osteoporosis, periodontal disease, bone fracture, bone damage following bone reconstructive surgery, sarcopenia, frailty, aging skin, male hypogonadism, postmenopausal symptoms in women, atherosclerosis, hypercholesterolemia, hyperlipidemia, obesity, aplastic anemia and other hematopoietic disorders, inflammatory arthritis and joint repair, HIV-wasting, prostate cancer, benign prostatic hyperplasia (BPH), cancer cachexia, Alzheimer's disease, muscular dystrophies, cognitive decline, sexual dysfunction, sleep apnea, depression, premature ovarian failure, and autoimmune disease, alone or in combination with other active agents. Thus, II was prepared Some of the compds. had IC50 values of 1 μM or less in an assay for endogenously expressed AR.

ACCESSION NUMBER: 2005:1154379 CAPLUS Full-text

DOCUMENT NUMBER: 143:406045

TITLE: Preparation of 17β -acetamide-4-azasteroids as

androgen receptor modulators

INVENTOR(S): Wang, Jiabing; Mcvean, Carol A.

PATENT ASSIGNEE(S): Merck & Co., Inc., USA SOURCE: PCT Int. Appl., 93 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE

WO 2005099707 A1 20051027 WO 2005-US11537 20050404

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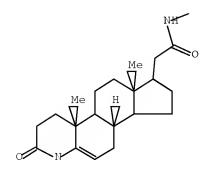
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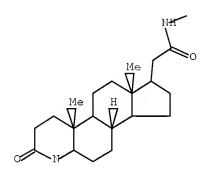


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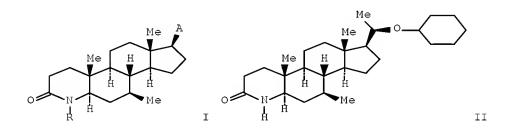
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L13 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2009 ACS on STN

TI Preparation of 7β -substituted-4-aza-5 α -androstan-3-ones as 5α -reductase inhibitors

GΙ



New 7 β -substituted 4-aza-5 α -androstan-3-ones of formula I [R = H, Me, Et; A = aminoalkyl, alkyl, alkoxy, etc.] and related compds. are prepared as 5 α -reductase inhibitors. Thus, II was prepared from 20-hydroxy-7 β -methyl-5 α -4-azapregnan-3-one and dimethoxycyclohexane in 2 steps.

ACCESSION NUMBER: 1998:62248 CAPLUS Full-text

DOCUMENT NUMBER: 128:140893

ORIGINAL REFERENCE NO.: 128:27727a,27730a
TITLE: Preparation of

 7β -substituted-4-aza- 5α -androstan-3-ones as

 5α -reductase inhibitors

INVENTOR(S): Bakshi, Raman K.; Rasmusson, Gary H.; Tolman,

Richard

L.; Patel, Gool F.; Harris, Georgianna S.;

Graham,

Donald W.; Witzel, Bruce E.

PATENT ASSIGNEE(S): Merck and Co., Inc., USA

SOURCE: U.S., 95 pp., Cont.-in-part of U.S. Ser. No.

886,572,

abandoned.

CODEN: USXXAM

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
US 5710275	A	19980120	US 1995-341602		
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WO 9323420	Α1	19931125	WO 1993-US4643		
19930514 <			2000 001010		
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RU, SD, SK,	UA, US				
RW: BF, BJ, CF,	CG, CI	, CM, GA,	GN, ML, MR, NE, SN,	TD, TG	
PRIORITY APPLN. INFO.:			US 1992-886572	B2	
19920520 <					
			WO 1993-US4643	W	
19930514 <					

L13 ANSWER 2 OF 6 CAPLUS COPYRIGHT 2009 ACS on STN

Preparation of substituted 4-aza-3-oxo-steroids for use as 5α -reductase inhibitors

GΙ

AΒ Steroids such as $4-aza-5\alpha$ -androstan-ones I [1,2-, 5,6-saturated or unsatd.; R4 = H, Me, Et; R7 = R7a = H, OH, alkyl, alkenyl, carbamoyloxy, carboxy, etc.; R7R7a = oxo, cycloalkyl, etc.; R16 = R16a = H, alkyl; R16R16a = cycloalkenyl; R17 = R17a = H, acyl, carbamoyl, aminoalkyl, alkyl, etc.; R17R17a = oxo, etc.] were prepared as 5α -reductase inhibitors for treatment of hyperandrogenic conditions. Thus, 4-methyl-17 β -

Ι

(trimethylacetamido) -5α -4-azaandrostan-3-one was prepared via oximation of 4-methyl-3-oxo- 5α -4-azaandrostan-17- carboxaldehyde, hydrogenation to form the corresponding amine followed by N-acylation with Me3CCO2C1. The prepared compds. were tested for inhibition of human prostatic and scalp 5α -reductase, however, activities for specific compds. were not presented.

ACCESSION NUMBER: 1997:776029 CAPLUS Full-text

DOCUMENT NUMBER: 128:61680

ORIGINAL REFERENCE NO.: 128:12090h,12091a

TITLE: Preparation of substituted 4-aza-3-oxo-

steroids for

use as 5α -reductase inhibitors

INVENTOR(S):
Durette, Philippe L.; Hagmann, William;

Rasmusson,

Gary H.; Tolman, Richard L.; Kopka, Ihor E.;

Sahoo,

Soumya P.; Esser, Craig K.; Steinberg, Nathan

G.;

Graham, Donald W.; Witzel, Bruce E.

PATENT ASSIGNEE(S): Merck and Co., Inc., USA

SOURCE: U.S., 139 pp., Cont.-in-part of U.S. Ser. No.

886,537,

abandoned.

CODEN: USXXAM

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

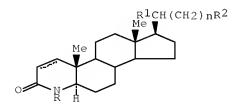
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PRIORITY APPLN. INFO.:			US 1992-886537	B2
19920520 <				

L13 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2009 ACS on STN

TI 17-Ester, amide, and ketone derivatives of 3-oxo-4-azasteroids as 5α -reductase inhibitors

GI



Ι

AB Title compds. I [R = H, Me, Et; R1 = H, Me; R2 = acyl, carbamoyl, carboxylic ester; n = 0-10] were prepared for use as 5α -reductase inhibitors. Thus, $3-\infty$ -0-methyl-N-phenyl-0-0-pregnane-0-carboxylic acid was converted to its anilide by reaction with PhNH2 in presence of Me2CHCOCl, N-methylmorpholine, and DMAP.

ACCESSION NUMBER: 1996:323793 CAPLUS Full-text

DOCUMENT NUMBER: 125:58853

ORIGINAL REFERENCE NO.: 125:11337a,11340a

TITLE: 17-Ester, amide, and ketone derivatives of

 $3-\infty$ 0-4-azasteroids as 5α -reductase inhibitors

INVENTOR(S): Graham, Donald W.; Aster, Susan D.; Hagmann,

William;

Tolman, Richard L.

PATENT ASSIGNEE(S): Merck and Co., Inc., USA

SOURCE: U.S., 22 pp., Cont.-in-part of U.S. Ser. No.

886,021,

abandoned.

CODEN: USXXAM

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
US 5510485	A	19960423	US 1994-335792		
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PRIORITY APPLN. INFO.:			US 1992-886021 B	2	
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L13 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2009 ACS on STN

TI preparation of substituted 4-aza-5a-androstanones as 5α -reductase inhibitors

GI

AB 4-Aza-5 α -androstan-3-ones [I; R = H, Me, Et; T1, T2 = H, C1-6 alkyl, T1T2 = C1-6 alkylidene; R1, R2 = H, C1-4 alkyl, C2-4 alkenyl, CO2H, OH, CH2CO2H, carbamoyloxy, etc., R1R2 = O; A = (substituted) hydrocarbyl, carbamoyl, etc.; a, b, e = single or double bond] and related compds., effective at 0.01-7 mg/kg as 5 α -reductase inhibitors in treating benign prostatic hypertrophy, prostatitis, prostatic carcinoma, hyperandrogenic conditions,

etc., are prepared Thus, oximation of 4-methyl-3-oxo-4-aza-5 α -androstane-17 β -carboxaldehyde and subsequent reduction by H over PtO2 gave the corresponding 17 β -(aminomethyl) derivative Acylation of this aminomethyl compound with MeO2C(CH2)7COCl in pyridine/CH2Cl2 gave 17 β -[[8-

(methoxycarbonyl)octanoyl]amino]methyl]-4-methyl-4-aza- 5α -androstan-3-one.

ACCESSION NUMBER: 1995:266948 CAPLUS Full-text

DOCUMENT NUMBER: 122:56297

ORIGINAL REFERENCE NO.: 122:10919a,10922a

TITLE: preparation of substituted 4-aza-5a-

androstanones as

 5α -reductase inhibitors

INVENTOR(S): Durette, Philippe L.; Hagmann, William;

Rasmusson,

Gary H.; Tolman, Richard L.; Kopka, Ihor E.;

Sahoo,

Soumya P.; Esser, Craig K.; Steinberg, Nathan

G.;

Graham, Donald W.; Witzel, Bruce E.

PATENT ASSIGNEE(S): Merck and Co., Inc., USA SOURCE: PCT Int. Appl., 533 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND DATE		APPLICATION NO.	DATE
WO 9323039	A1	19931125	WO 1993-US4734	
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PT, SE,				
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AU 9342519	A	19931213	AU 1993-42519	
19930518 <				
PRIORITY APPLN. INFO.:			US 1992-886537	A2
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L13 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2009 ACS on STN

TI preparation of 7β -substituted-4-aza-5 α -androstan-3-ones as 5α -reductase inhibitors

GΙ

19930518 <--

The title compds. [I; R = H, Me, Et; R1 = H; R2 = substituted C1-4 alkyl, C2-4 alkenyl, OH, CO2H, ester residue, CH2CO2H, etc., R1R2 = O; A = oxo, substituted alkyl, etc.; a, b = saturated or unsatd. (α -H is absent)], useful in treating male pattern baldness, benign prostatic hypertrophy, prostatic carcinoma, prostatitis, etc. at 0.01-7 mg/kg-day, are prepared Oxidative cleavage of 17 β -[(tert-butyldimethylsilyl)oxy]-7 β - methylandrost-4-en-3-one with NaIO4 and KMnO4 in tert-BuOH at 80° gave 17 β -[(tert-butyldimethylsilyl)oxy]-7 β -methyl-5-oxo-A-nor- 3,5-secoandrostan-3-oic acid, which was heated with MeNH2.HCl and NaOAc in HOCH2CH2OH at 180° to give the aza analog I (R = R2 = Me, R1 = H,

ACCESSION NUMBER: 1994:680955 CAPLUS Full-text

Т

DOCUMENT NUMBER: 121:280955

ORIGINAL REFERENCE NO.: 121:51307a,51310a TITLE: preparation of

 7β -substituted-4-aza- 5α -androstan-3-ones as

 5α -reductase inhibitors

A = β -tert-BuSiMe20, a = saturated, b = unsatd., α -H absent).

INVENTOR(S): Bakshi, Raman K.; Rasmusson, Gary H.; Tolman,

Richard

L.; Patel, Gool F.; Harris, Georgianna;

Graham, Donald

W.; Witzel, Bruce E.

PATENT ASSIGNEE(S): Merck and Co., Inc., USA SOURCE: Eur. Pat. Appl., 229 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

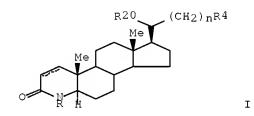
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L13 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2009 ACS on STN

ΤI Preparation of 17-ester, -amide, and -ketone derivatives of $3-\infty$ o-4-azasteroids as testosterone 5α -reductase inhibitors GI



AΒ Title compds. [I; R = H, Me, Et; R4 = COR1, CONHR2, CO2R3; R1 = (hetero)aryl; R2 = substituted Ph, (substituted)heteroaryl, cycloalkyl; R3 = cycloalkyl, (substituted)aryl; R20 = H, Me; n = 0-10; dashed line = optional bond] were prepared as testosterone 5α -reductase inhibitors (no data). Thus, 4-methyl-17 β trifluoromethylsulfonyloxy-4-aza- 5α -androst-16-en-3-one was condensed with HC.tplbond.CCH2CH2CO2Me and the reduced product saponified to give I (R = Me, R4 CO2H, R20 = H, n = 3).

ACCESSION NUMBER: 1994:134931 CAPLUS Full-text

DOCUMENT NUMBER: 120:134931

ORIGINAL REFERENCE NO.: 120:23791a,23794a

Preparation of 17-ester, -amide, and -ketone TITLE:

derivatives of 3-oxo-4-azasteroids as

testosterone

 5α -reductase inhibitors

INVENTOR(S): Graham, Donald W.; Aster, Susan D.; Hagmann,

William;

Tolman, Richard L.

Merck and Co., Inc., USA PATENT ASSIGNEE(S): PCT Int. Appl., 60 pp.

SOURCE:

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

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WO 9323	051		A1		1993	1125	,	WO 1	993-1	US46	31			
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R₩:	AT, BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	ΙE,	IT,	LU,	MC,	NL,	
PT, SE,														
	BF, BJ,	CF,	CG,	CI,	CM,	GΑ,	GN,	ML,	MR,	ΝE,	SN,	TD,	TG	
AU 9342	505		А		1993	1213		AU 1	993-	4250.	5			
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EP 6412	09		A1		1995	0308		EP 1	993-	9113	31			
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JP 0750	8033		Т		1995	0907		JP 1	993-	5037	79			
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PRIORITY APP	LN. INFC	· :						US 1	992-	8860	21		A2	
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